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EDITED BY

**TOMITARŌ MAKINO**, Sc. D.

LECTURER OF BOTANY IN THE FACULTY OF SCIENCE,  
IMPERIAL UNIVERSITY OF TOKYO.

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**Notes on Japanese Lichens. V.**

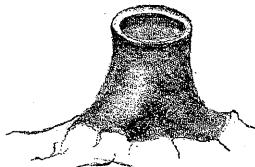
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By Yasuhiko Asahina.

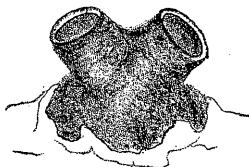
**Pyrgillus boninensis**, Y. ASAHINA, nov. sp.

Thallus dilute sulfurescens, subnitidus, continuus vel parum rimulosus, K dilute ochraceus, CaCl<sub>2</sub>, 75-90  $\mu$  crassus, non corticatus, homoeomericus, gonidiis chroolepoideis; hypothallus albidus. Apothecia dispersa, 1-1.2 mm alta, ampullacea, excipulo carbonaceo, margine ostiollo albo pruinoso, hymenio decolore, ad basin excipulo sito, subgloboso, I dilute lutescente; mazaedium densum. Sporae fuscae, ellipsoidae, triseptatae, 8-10  $\mu$  longae, 6-7  $\mu$  crassae. Lignicola.

Closely allied to *Pyrgillus hawaiiensis* A. ZAHLBRUCKNER (Ann. mycologici, vol. X, 1912, p. 364), but differs from the latter by the totally homoeomerous



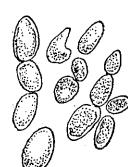
Apothecia (magnified.)



Gonidia (magnified).

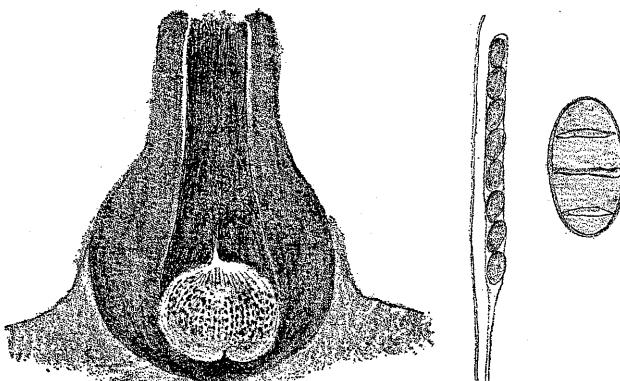
*Pyrgillus boninensis* Y. ASAHINA, nov. sp.

(ASAHIKA del.)



thallus, whose hyphae are intermixed with minute crystalline particles and by the white pruinose apex of apothecium. The wall of apothecium is thick and carbonaceous; hymenium hyaline and clear, continuing above to the black mazaedium, which fills up the neck-canal of apothecium. Paraphyses filiform, free, esepitate; ascii cylindrical, 50-60  $\mu$  long, 7-9  $\mu$  wide, not thickened at the apex.

On decorticated trunks of *Juniperus taxifolia* HOOK. et ARN. Ani-sima,



*Pyrgillus boninensis* Y. ASAHINA, nov. sp. Vertical section of the apothecium, paraphysis, ascus and spore. (magnified)  
(ASAHIWA del.)

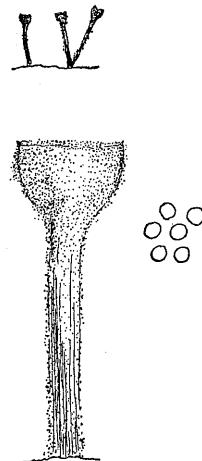
Bonin Islands (Ogasawara). Collected by F. FUZIKAWA (July 1931).

**Conioocybe luteum**, Y. ASAHINA, nov. sp.

Thallus tenuis, effusus, flavo-glaucusens vel cinerascens, subleprosus. Apothecia (cum Stiptibus) ad 1 mm alta, saepe ramosa, nigra, tota luteo-pruinosa, pulveris K+ purpurascentes. Sporae dilute flavidae, globosae, 3-3.5  $\mu$  crassae. Supra lignas emortuas.

Capitulum cup-shaped, up to 0.3 mm wide, 0.25 mm high; disc greyish. Gonidia protococcoid, algal cells globose, 6-8  $\mu$  in diameter. The purple red colouration of prunina by alkali is very characteristic.

On decayed wood. Haha-sima, Bonin Islands (Ogasawara). Collected by A. YAMAMOTO (28 July 1928).



*Conioocybe lutea* Y.  
ASAHIWA, nov. sp.